

Thinning Greenland Icecap



U.S. Gulf Coast Sediments



Scientists Use NASA Data to Hunt for Dinosaur Fossils



Hurricane Floyd Effects on Coastal Ecology

SERVICES

Data Analysis & Visualization

Calibration/Validation
Customized Products for Global Position System (GPS) Data
GIS
San Francisco Bay Area On-line Imagery
Statistical Applications
Visualization/Image Processing Applications

Data Applications

Project Consultation
Data Interpretation
Data Presentation
Data Selection

Data Handling

Archiving
Cataloging
Compression
Data Mining
Data Retrieval
Data Search and Access
Digital Earth
Media Transfer/Rescue
Reformatting
Sub/Supersampling

Education/Outreach/User Services

Curriculum
Data User Project Consultation
Environmental Law/Management
Help Desks
Interactive Programs
Museum Exhibits
Teaching Materials

Models

Mathematical
Physical

Product Application Services

Available

WHERE to access ESIP Federation Products and Services.

Most ESIP Federation Products and many Services are available at no cost to the user. Exceptions to this are as indicated in the listings to be found through the Web site below.

To find a Product or Service go to:

<http://www.esipfed.org/intercom/index.html>

Using the ESIP Federation search interfaces Global Change Master Directory (GCMD) and Mercury you can access a comprehensive directory of Earth Science and global change data. The interfaces allow you to explore information for Federation data sets and access Federation web pages. Using GCMD, you also have access to the complete GCMD catalog of products and services. Utilizing Mercury, you have access to additional metadata (information about the data) provided by ESIPs.

The ESIP Federation members are always looking for ways to better serve our users; questions or comments call us at **202.479.6915 ext. 233**.

The ESIP Federation is actively seeking sponsors and user groups who share our vision.

"We see a time when society's quality of life, economic opportunities, and stewardship of the planet are enhanced by regular use of scientifically accurate, Earth science information provided in a timely manner by the Federation of groups collaborating to improve their collective services."



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THE FEDERATION OF

EARTH SCIENCE

INFORMATION

PARTNERS

PRODUCTS AND SERVICES



Understanding our physical surroundings has always been key to human survival.

In 1998, NASA's Earth Science Enterprise (ESE) instituted the Earth Science Information Partners (ESIP) Federation to facilitate greater public availability of Earth science data. For the list of ESIP Federation partners, visit www.esipfed.org/

WHY the ESIP Federation?

The ESIP Federation brings together government agencies, universities, non-profit entities, and private enterprise to work collectively to make Earth science information more available to the broader community.

- ▲ NASA's ESE program recognized the growing need to better understand natural and human-induced changes to the environment and thus formed the Federation.
- ▲ Federation members are in unique positions to produce varied data sets resulting in a rich data and information pool for research, education, and a wide range of community applications.
- ▲ The data are derived from remote sensing technologies including space-borne, airborne, and in situ systems. In addition to "raw" image products, the Federation offers specialized Earth science products and user services.

WHO can benefit from the ESIP Federation's Products and Services?

Anyone whose work or interests should benefit from high quality Earth science data and their interpretation will want to look into using ESIP Federation Products and Services. Such are designed to assist:

- ▲ Earth science research
- ▲ Applications fields
- ▲ Resource management
- ▲ Environmental monitoring
- ▲ Local government
- ▲ Business and industry
- ▲ Education and training
- ▲ Broad community interests

The ESIP Federation is committed to each phase in the creation and use of Earth science information. Members acquire, process, add value to, and archive remote sensing data for the purpose of distributing and providing data management services to science, applications, education, and other communities.

WHAT Earth science products and services does the ESIP Federation provide?

PRODUCTS: Data sets, imagery, map products, software packages, and data servers are available or can be developed to address a wide variety of research and application development needs.

SERVICES: Resources to aid researchers, decision-makers, and other functionaries in analyzing and visualizing Earth science data.

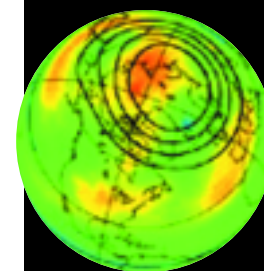
- ▲ Visualization/Image Processing Tools
- ▲ Statistical Analysis
- ▲ Tools for Calibration & Validation of Data sets

As a guide, the following is a representative list of the more than 2000 Federation Products and Services.

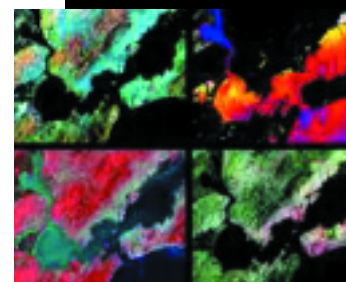
PRODUCTS

Atmospheric Processes

Atmospheric Profiles (temperature, pressure, etc.)
Cloud Cover/Properties
Earth-Atmosphere Interactions
El Nino
Products for Aerosol Studies
Products for Ozone Research
Products for Pollution Studies
Radiation Transfer/Budget
Solar Radiation Effects
Trace Gas Emissions
Weather News and Forecasting



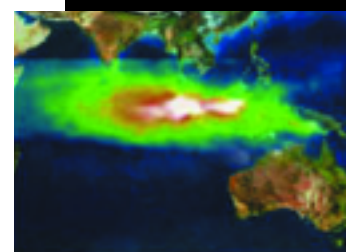
NASA Confirms Arctic Ozone Depletion Trigger



San Francisco Bay Area



Identifying Burn Scars in Arid Urban Regions



NASA Satellite Tracks Hazardous Smoke and Smog Conditions

Biosphere Processes

Agriculture Applications
Products for Crop/Climate Studies
Products for Ecosystem Modeling and Studies
Plant Health/Stress
Seasonal Transitions
Vegetation Cover/Index

Climate Studies

Global Climate Change
Products for Seasonal and Interannual Variations/Studies

Hydrologic Processes

Atmospheric Moisture
Evapotranspiration
Hydrologic (Water) Cycle
Lightning Strikes
Precipitation (in terms of hydrologic cycle)
Products for Evapotranspiration Applications
Products for Regional Applications
Products for Soil Moisture Applications
Water Management and Resource Planning

Land Processes/Land Use

Agricultural Land Evaluation/Crop Production
Deforestation
Digital Terrain Mapping
Drought and Floods
Fire Conditions/Direction of Spread
Land Management
Natural Resource Management
Precision Farming and Ranching
Products for Amazonia Regional Research
Products for Elevation Modeling
Products for Forestry Applications
Products for Tropical Rain Forest Studies

Products for Terrestrial Carbon Cycle Modeling
Products for Watershed Applications
Ranching/Grasslands Quality Assessment
Regional Assessments
Soil Moisture
Urbanization and Planning
Vegetation Cover

Ocean Processes

Biological Processes and Productivity
Coastal Processes
Fisheries Mapping and Planning
Global Maritime Boundaries
Marine Information and Routing
Ocean Circulation
Ocean Wind
Sea-Atmosphere Interactions
Sea Surface Temperature/Height

Polar Studies

Antarctic Imaging
Ice Thickness
Polar Atmosphere
Products for Arctic Wildlife Studies
Products for Glacier Studies
Sea-Ice Motion and Classification
Snow Cover
Snow Melt in Arid Areas

Socioeconomic Applications & Environmental Processes

Administrative Boundary
Environmental Evaluations
Environmental and Resource Usage Indicators
Population Data
Products for Biochemistry Studies
Products for Ecology Studies
Products for Human and Environmental Health Applications
Products for Public Health Risk Studies